

Ex Parte Presentation

Review of Proceedings

WTB Docket No. 07-121

Wireless Strategies Inc.

Meeting with WTB and OET March 2009

DREs - Features and Benefits

- ❖ DREs are Secondary (unprotected by the licensing process)
- ❖ DREs will Cause No Harm
- ❖ DREs will Dramatically Increase the Effective Use of Spectrum
- ❖ DREs will Dramatically Lower the Cost of Service Provisioning

Meeting with WTB and OET March 2009

The question was asked: “Why not make the DREs Primary (to permanently provide the benefits)”

The answer given was incomplete. The answer is:

“It is unnecessary because through innovative engineering, once a DRE is deployed it can be expected to operate permanently although its regulatory status in secondary”.

Rule 101.103 – Coordination of EIRP

Prior
Coordination
Boundary

EIRP

Only the EIRP
at zero degrees
is used, at all
other angles it
is unused, it is
WASTED!

New Applicant
Authorized Licensees

Wireless Strategies Inc.

Rule 101.103 – Coordination of EIRP

Prior
Coordination
Boundary

If successfully coordinated
the New Applicant becomes
an Authorized Licensee

EIRP

New Licensee
Authorized Licensees

Wireless Strategies Inc.

DREs with Secondary Status

Prior
Coordination
Boundary

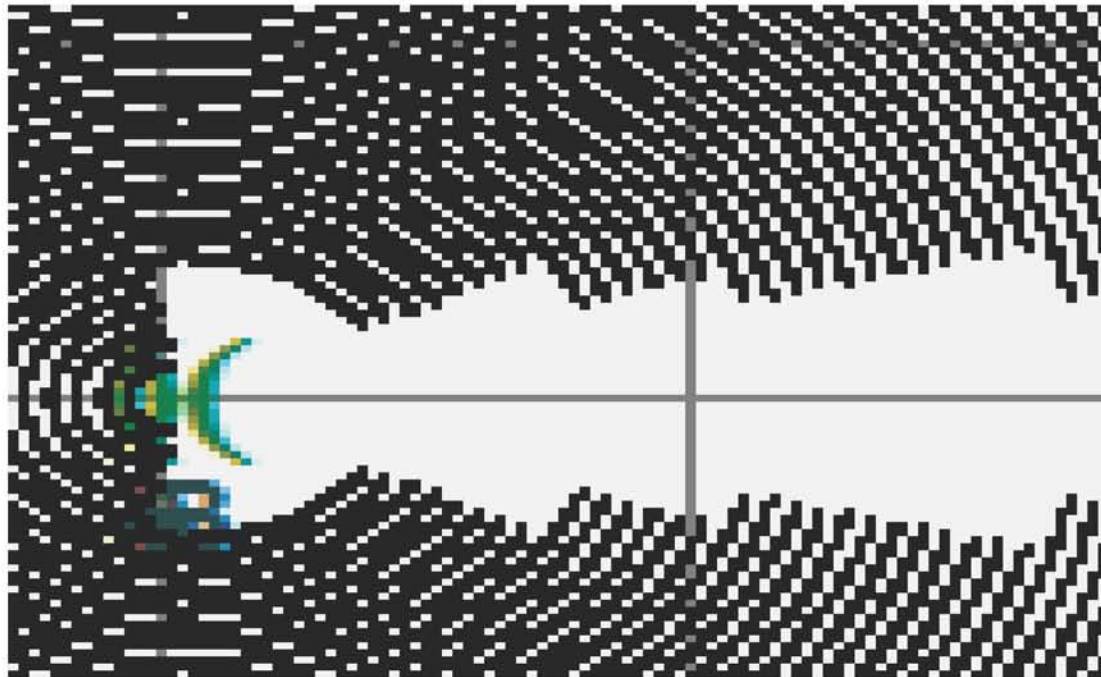
Successfully prior
coordinated DREs
add No Harmful
Interference but
could be Subject
to Harmful
Interference

Authorized Licensee
DRE Secondary Status

Wireless Strategies Inc.

Licensed Site's Initial Interference Contour

Computer plot of a Contour around a Licensed Site within which a New Applicant's Proposed Site would either Cause or Receive Harmful Interference.

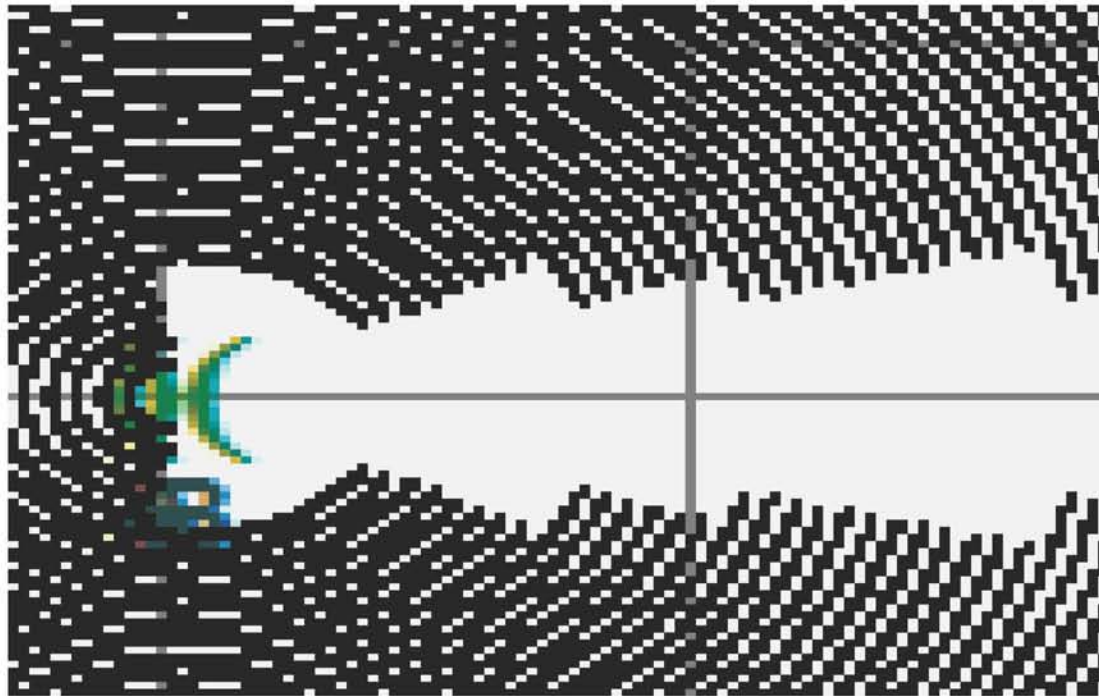


Authorized Site

Wireless Strategies Inc.

Licensed Site's Initial Interference Contour

Licensed Site's Initial Interference Contour Showing the Location Boundaries where the Licensee would reasonably expect New Applicant Paths to Cross the Licensees Path without Causing or Receiving Harmful interference



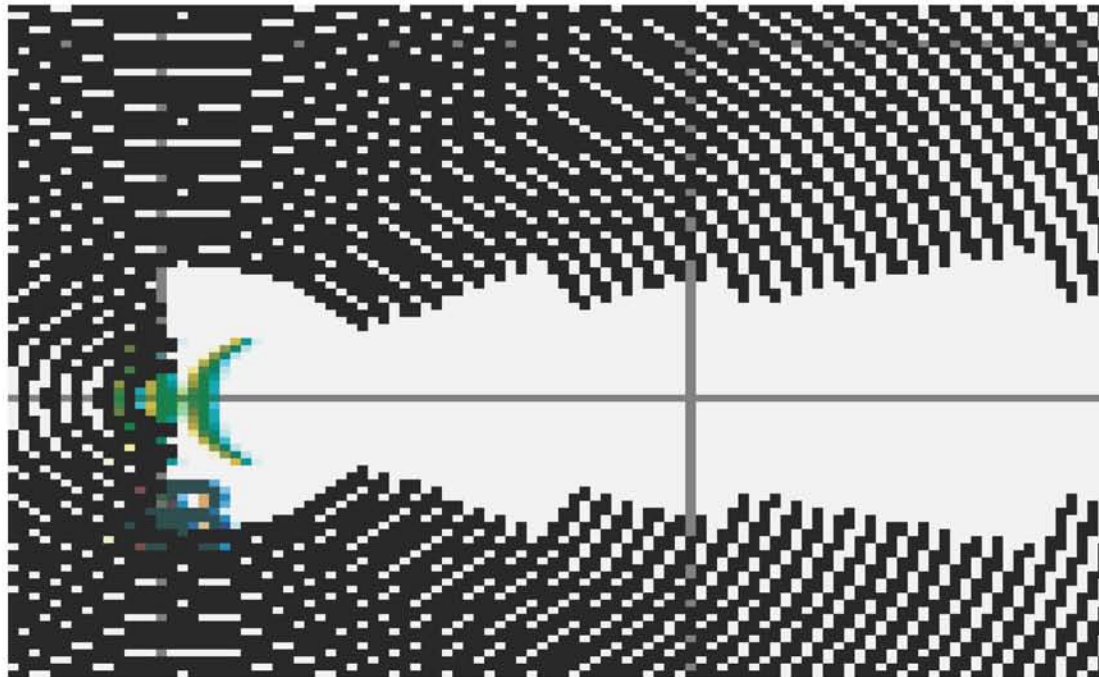
Authorized Site

New Applicant

Wireless Strategies Inc.

Licensed Site's Initial Interference Contour

Computer plot of a Contour around a Licensed Site within which a New Applicant's Proposed Site would either Cause or Receive Harmful Interference.



Authorized Site

Wireless Strategies Inc.

Initial Interference Contour for a Licensed Site with a Type A antenna

(Closest location when the New Applicant's antenna is pointed directly away from a Licensed Site*)

New Applicant
Authorized Licensees

*Assumes New Applicant
Coordinates with other
Licensees

Wireless Strategies Inc.

nth Interference Contour for a Licensed Site with a Type A antenna

(Closest location when the New Applicant's antenna is pointed directly at a Licensed Site*)

New Applicant
Authorized Licensees

*Assumes New Applicant
Coordinates with other
Licensees

Wireless Strategies Inc.

Initial Interference Contour for a Licensed Site with a Type A antenna

(Closest location when the New Applicant's antenna is pointed directly away from a Licensed Site*)

New Applicant
Authorized Licensees
DRE

*Assumes New Applicant
Coordinates with other
Licensees

Wireless Strategies Inc.

Permanent DRE Protection by **Authorizing Primary Status**

Authorized Licensee
DRE Primary Status

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Wireless Strategies Inc.

Initial Interference Contour for a Licensed Site with a Type A antenna

(Closest location when the New Applicant's antenna is pointed directly away from a Licensed Site*)

New Applicant
Authorized Licensees

*Assumes New Applicant
Coordinates with other
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Wireless Strategies Inc.

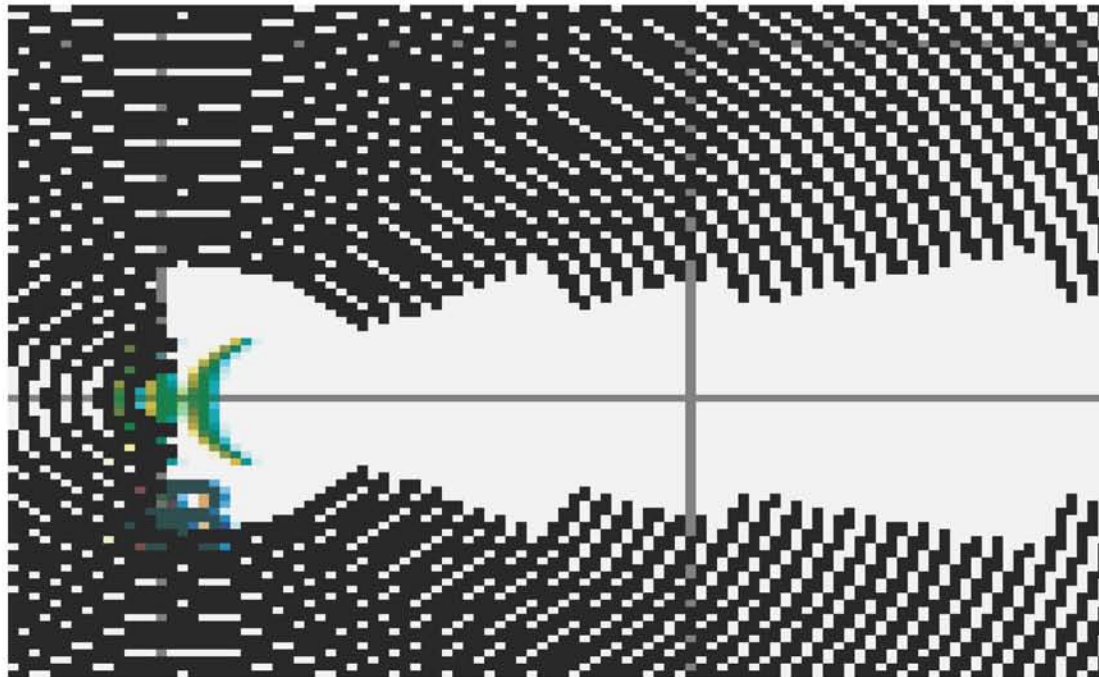
Predicting and Mitigating an Extreme New Applicant Scenario

(DRE's within the Initial Interference Contour)

Hill

Licensed Site's Initial Interference Contour

Computer plot of a Contour around a Licensed Site within which a New Applicant's Proposed Site would either Cause or Receive Harmful Interference.



Authorized Site

Wireless Strategies Inc.

Predicting and Mitigating an Extreme New Applicant Scenario

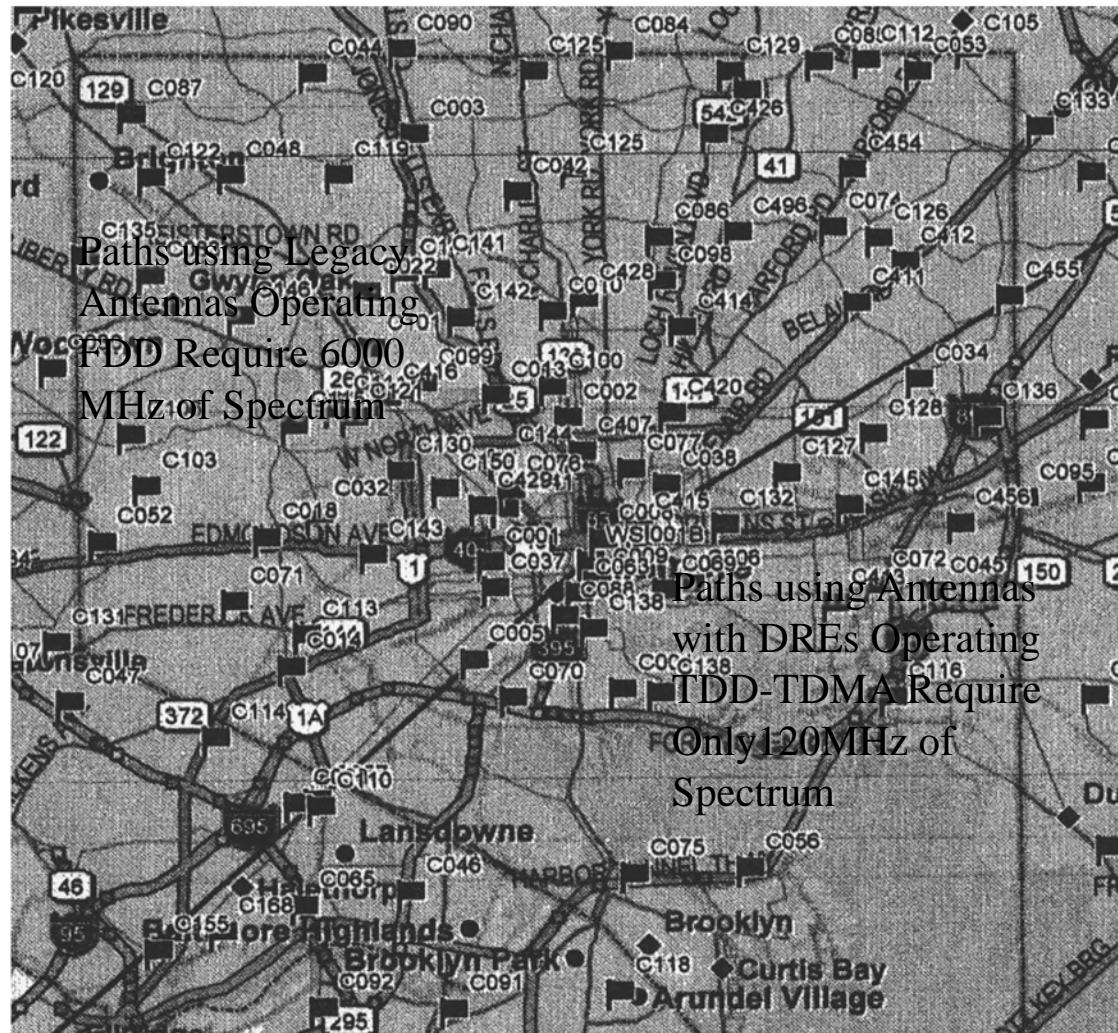
(DRE's within the Initial Interference Contour)

Hill

Summary

- ❖ DREs will Cause No Harm
 - ❖ they are Secondary (not protected by licensing)
- ❖ DREs can be protected by Innovative Engineering
- ❖ DREs can Dramatically Increase the Effective Use of Spectrum
- ❖ DREs can Dramatically Lower the Cost of Service provisioning

Typical 4G Deployment (100 Base Stations Around a City Center)



Wireless Strategies Inc.

In The Public Interest

Feature

DREs are Secondary

Benefits

- DREs Cause No Harm
- DREs Conserve Significant amounts of Spectrum
- DREs Dramatically Lower the Cost of Provisioning Services

- ✧ There must be a way to immediately provide these benefits.
- ✧ Suggestions?

Wireless Strategies Inc.